

IN THE CLAIMS:

Please cancel claims 8-11, 13-17, and 19-49. Please amend claims 1 and 12.

This listing of claims will replace all prior versions, and listings, of claims in the application.

STATUS OF THE CLAIMS:

1. (Currently Amended) An isolated nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule comprising a nucleotide sequence which is at least 9560% identical to the nucleotide sequence of either of SEQ ID NOs: 1 and 3, wherein the polypeptide encoded by the nucleic acid molecule has kinase activity;

b) a nucleic acid molecule comprising a fragment of at least 1400300 nucleotides of the nucleotide sequence of either of SEQ ID NOs: 1 and 3, wherein the polypeptide encoded by the nucleic acid molecule has kinase activity;

c) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO: 2; and

d) a nucleic acid molecule which encodes a fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO: 2, wherein the fragment comprises at least 100015 contiguous amino acids of SEQ ID NO: 2, wherein the polypeptide has kinase activity. and

~~e) a nucleic acid molecule which encodes a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO: 2, wherein the nucleic acid molecule hybridizes with a nucleic acid molecule comprising one of SEQ ID NO: 1, SEQ ID NO: 3, and a complement thereof, under stringent conditions.~~

2. (Original) The isolated nucleic acid molecule of claim 1, which is selected from the group consisting of:

a) a nucleic acid comprising the nucleotide sequence of either of SEQ ID NOs: 1 and 3; and

b) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO: 2.

3. (Original) The nucleic acid molecule of claim 1 further comprising a vector nucleic acid sequence.

4. (Original) The nucleic acid molecule of claim 1 further comprising a nucleic acid sequence encoding a heterologous polypeptide.

5. (Original) A host cell that contains the nucleic acid molecule of claim 1.

6. (Original) The host cell of claim 5, wherein the host cell is a mammalian host cell.

7. (Original) A non-human mammalian host cell containing the nucleic acid molecule of claim 1.

8-11 (Canceled).

12. (Currently Amended) A method for producing a polypeptide selected from the group consisting of:

a) a polypeptide comprising the amino acid sequence of SEQ ID NO: 2; and
b) a polypeptide comprising a fragment of the amino acid sequence of SEQ ID NO: 2, wherein the fragment comprises at least ~~1000~~⁴⁵ contiguous amino acids of SEQ ID NO: 2, wherein the polypeptide has kinase activity; ~~and~~

~~e) a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO: 2, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes with a nucleic acid molecule comprising one of SEQ ID NO: 1, SEQ ID NO: 3, and a complement of either of these, under stringent conditions;~~

13-17. (Canceled)

18. (Original) A kit comprising a compound that selectively hybridizes with a nucleic acid molecule of claim 1 and instructions for use.

19-49. (Canceled)